

19991218.qrp v01\_n673.qrl.991218

Date: Sat, 18 Dec 1999 19:03:06 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1673

QRP-L Digest 1673

Topics covered in this issue include:

- 1) [58317] PROP: Weekend conditions  
by "Paul Harden, NA5N" <na5n@rt66.com>
- 2) [58318] Re: HTX-10 Rumor...  
by zmola@campbellsci.com
- 3) [58319] Hamming in Bolivia?  
by "Paul Harden, NA5N" <na5n@rt66.com>
- 4) [58320] Safe tree work -- was Antenna Tree Supports  
by "Bruce Prior" <n7rr@hotmail.com>
- 5) [58321] Catch Monday's FOX! 0200utc  
by "Steve/n0tu" <n0tu@webaccess.net>
- 6) [58322] Re: CTHA?  
by "Benjamin F. Poinsett" <benmail@erols.com>
- 7) [58323] Re: FOX #16 - N4DD - Dennis @ East TN  
by "Al Gritzmacher " <ae2t@arrl.net>
- 8) [58324] RE: MFJ Pocket Morse Tutor (MFJ-411)  
by David Kidd <ka7ozo@pacifier.com>
- 9) [58325] Receivers: More on Active Filters  
by "James R. Duffey" <jamesd1@flash.net>
- 10) [58326] Re: Atlanticon 2000 QRP Forum ... open for reservations!  
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 11) [58327] I care .....  
by "Walt Amos" <waltamos@surfree.com>
- 12) [58328] Mast extension above a tree-top ? ? ?  
by "Tom Scott" <tscott@eni.net>
- 13) [58329] Antenna reflector list?  
by "Tom Scott" <tscott@eni.net>
- 14) [58330] 160m QRP DXCC  
by aweiss@usd.edu (Ade Weiss W0RSP)
- 15) [58331] Re: I care .....  
by "Mike Yetsko" <myetsko@insydesw.com>
- 16) [58332] RE: Need (want) Norcal Cap Kit  
by Wa3ptg@aol.com
- 17) [58333] Re: Antenna reflector list?  
by "Rod Cerkoney" <rlc@frii.com>
- 18) [58334] Re: Antenna reflector list?  
by Chris Trask <ctrask@primenet.com>
- 19) [58335] Re: WQ4RP Super Vertical

- by Paul Stroud <aa4xx@ipass.net>
- 20) [58336] SSB adaptor power help  
by "Jeff Gold" <jeffmgold@hotmail.com>
- 21) [58337] CONTEST: Holiday Milliwatt CW Contest  
by Chris Cartwright Sr <ccart@phideaux.com>
- 22) [58338] Kokopelli 1, Log and soapbox  
by "Rod Cerkoney" <rlw@frii.com>
- 23) [58339] Re: Mast extension above a tree-top ? ? ?  
by Jim Durkin <jimdurkin@yahoo.com>
- 24) [58340] Sorry but Happy QRP Greetings  
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 25) [58341] Re: WQ4RP Super Vertical  
by "Walter Dufrain" <walter@inlink.com>
- 26) [58342] Counterpoise question  
by Goran Hosinsky <hosinsky@jet.es>
- 27) [58343] RE: Mast extension above a tree-top ? ? ?  
by Jim Durkin <jimdurkin@yahoo.com>
- 28) [58344] WTB: CORSAIR I  
by ARDUJENSKI@aol.com
- 29) [58345] Fw: New Calendar is GREAT!  
by "Ron Polityka" <wb3aal@talon.net>
- 30) [58346] Fw: 2000 Contest Calendar Received  
by "Ron Polityka" <wb3aal@talon.net>
- 31) [58347] HTX-10 Observations and Questions  
by k5xu@concentric.net
- 32) [58348] Re: Mast extension above a tree-top ? ? ?  
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
- 33) [58349] 10 meter miniPIG qso  
by "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
- 34) [58350] Re: Receivers: CW Filters, More Comments from the Doctor  
by Wayne Burdick <n6kr@elecraft.com>
- 35) [58351] new commer  
by Gordon <gordon@znet.groupz.net>
- 36) [58352] wattmeter comparisons  
by M Goins <mgoins@usa.net>
- 37) [58353] Re: Short portable antennas  
by "Richard McGaver" <mcgaver@execpc.com>
- 38) [58354] Daiwa CN620A  
by "colin" <gw3wsu@gw8nnc.screaming.net>
- 39) [58355] Re: Kokopelli 1, Log and soapbox  
by "Steve/n0tu" <n0tu@webaccess.net>
- 40) [58356] Re: Counterpoise question  
by "Bob Tellefsen" <n6wg@earthlink.net>
- 41) [58357] 2000 ARRL Leather Bound Radio Amateurs Handbook  
by Monte Stark <ku7y@dri.edu>
- 42) [58358] Re: new commer  
by "Bob Tellefsen" <n6wg@earthlink.net>
- 43) [58359] Re: Receivers: More on Active Filters

- by "Steven Weber" <kd1jv@moose.ncia.net>
- 44) [58360] Re: Mast extension above a tree-top ? ? ?  
by "Steven Weber" <kd1jv@moose.ncia.net>
- 45) [58361] Which is Best???  
by hamjoel@juno.com
- 46) [58362] Re: 160m QRP DXCC  
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 47) [58363] R/S 22-504 power supply  
by "Bob Tellefsen" <n6wg@earthlink.net>
- 48) [58364] Happy...Happy ...Happy !!!!!  
by osier <osier@northnet.org>
- 49) [58365] N3BJ/m 10M semi-beacon  
by "Alan Fryer" <n3bj@hotmail.com>
- 50) [58366] Re: Receivers: More on Active Filters  
by "James R. Duffey" <jamesd1@flash.net>
- 51) [58367] Things that make you go hummm(%#&^%  
by patrick m kvitkauskas <pmk@juno.com>

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Date: Fri, 17 Dec 1999 17:30:06 -0700 (MST)  
From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: qrp-l@lehigh.edu  
Subject: [58317] PROP: Weekend conditions  
Message-ID: <Pine.SUN.4.10.9912171719240.7254-1000000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

The sun continues to be fairly quiet with nothing but small C-class flares past few days. Even the coronal holes are currently out of our way. So ... there's nothing headed towards Earth to disturb our geomagnetic field except for the usual variation in the solar wind.

Today's (friday) solar flux was 201, crossing the 200 mark, and will likely hover around 200 for the next week. This means good activity can be expected on 20-10M.

The geomagnetic field has been very quiet as well nearly all week, with nothing expected to disturb it over the next few days. This is good news for 40 and 80M.

In short, high solar flux and low geomagnetic activity (A-index <12) means pretty good conditions this weekend, whether you prefer the higher bands or the good old 40/80M hangouts.

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

> SDF NUMBER 351 ISSUED AT 2200Z ON 17 DEC 1999

> IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100Z  
> TO 17/2100Z: SOLAR ACTIVITY WAS LOW.

> IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z:  
> THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED.

Quiet to unsettled is the normal "background noise" due to our magnetic field.

> IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
> EXPECTED TO BE QUIET TO UNSETTLED THROUGH THE FORECAST PERIOD.

> IV. PENTICTON 10.7 CM FLUX  
> OBSERVED 17 DEC 201 <----- today's solar flux -- high!  
> PREDICTED 18 DEC-20 DEC 210/195/190  
> 90 DAY MEAN 17 DEC 169 <----- well above the 90-day average

> V. GEOMAGNETIC A INDICES  
> OBSERVED AFR/AP 16 DEC 006/005 <----- like pretty quiet, dude!  
> ESTIMATED AFR/AP 17 DEC 008/008  
> PREDICTED AFR/AP 18 DEC-20 DEC 008/008-008/010-010/012

Have a nice weekend on the air, and a nice holiday.

72, Paul NA5N

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Date: Fri, 17 Dec 1999 17:43:52 -0700  
From: zmola@campbellsci.com  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [58318] Re: HTX-10 Rumor...  
Message-ID: <199912180037.AAA19087@demeter.campbellsci.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

"Mike Yetsko" writes:

> I heard on one of the 'other list' I'm on, that the manufacturer of the  
> HTX-10 (and others) is quite pleased with the acceptance, and  
> plans similar models. One being a 2M all mode, and the other  
> being a 40M....

I'm wondering what I'm gonna do when 10M dies. I've been loving my HTX-10. A 20M mobile rig would be great. I'm already saving up for a HF mobile rig for the slower times, but I like the cheapnes of the HTX-10.

I can afford to loose an HTX-10, but an FT-100 would be another story.

Carl  
AC7BB

Carl  
zmola@campbellsci.com

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Date: Fri, 17 Dec 1999 17:35:24 -0700 (MST)  
From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: qrp-l@lehigh.edu  
Subject: [58319] Hamming in Bolivia?  
Message-ID: <Pine.SUN.4.10.9912171730150.7254-1000000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,  
Need a bit of help if you can.

A friend/co-worker of mine, Rich N50BA, is traveling to Bolivia next week for about a month. He has been unsuccessful trying to find out what level of 2M activity and/or repeaters Bolivia has. Rich plans some extended hiking/camping trips and would like to have 2M in the event of emergency. (He does speak Spanish).

Anybody know where 2M repeater info in Bolivia can be sought? Anyone in Bolivia/Chile on the list by chance?

Thanks,  
72, Paul NA5N

-----  
Date: Fri, 17 Dec 1999 17:21:16 PST  
From: "Bruce Prior" <n7rr@hotmail.com>  
To: qrp-l@Lehigh.EDU  
Subject: [58320] Safe tree work -- was Antenna Tree Supports  
Message-ID: <19991218012116.12570.qmail@hotmail.com>  
Mime-Version: 1.0

Content-Type: text/plain; format=flowed

-----Original Message-----

From: Howard D Rubin [mailto:n3fel@juno.com]

Sent: Thursday, December 16, 1999 9:59 PM To: Low Power Amateur Radio Discussion

Subject: Re: Antenna Tree Supports

OK, so I get the idea on how to weight the antenna near ground level.

Now how do I get the eye bolt through the tree at a height of 55 feet?

Please advise, Howard, N3FEL

Yours is an excellent question, Howard, and it deserves a serious answer. 55 feet is a substantial height. You want to get that eye bolt up there VERY CAREFULLY. I'm a former mountaineering instructor, now a bit past my prime, so to speak. Here's how I did it:

Wearing my climbing helmet and mountaineering body harness, I started with a high-quality Werner fiberglass extension ladder. The ladder was extended with a 3-rung overlap between sections, according to instructions on the ladder. I asked Margaret, KD7CEL, to stand under the ladder and exert lateral pressure towards the tree as I ascended it for the first time and descended it for the last time. After climbing to near the top of the ladder within reach of the tree, I used 1-inch diameter nylon tubular webbing to secure the ladder to the tree.

>From there on, instead of having Margaret belay me using ordinary high-angle rock climbing belay-the-leader technique, I strung a series of tubular nylon webbing runners tied in loops with grapevine a.k.a. double fisherman knots to successive levels of the tree as I ascended. It was a bit time consuming to always be attached to the tree as I clipped in and out of the runners with locking carabiners. When I got to the drilling place, I was actually attached to the tree with three independent runners. After the eye-bolt was installed, I left the runners in place, descended to the ground and retrieved the antenna and pulley and weight kit, climbed the tree again with the same carabiner/runner routine and installed the antenna gear. Coming down the last time I carefully removed the runners step by step until I reached the ladder. I climbed down the ladder and asked for Margaret's help again. She repeated her lateral pressure trick while I carefully untied the ladder from the tree. This was the most dangerous part of the whole operation. That done, I climbed down the ladder, gave Margaret a kiss, stowed the ladder and went into the shack and fired up the antenna, a half-wavelength 40-m dipole.

Would I have done all of that without my climbing experience? Probably not.

Do you know any high-angle rock climbers? Maybe you should find one. No antenna is worth an injury or worse.

Now, can anybody tell me how to un-jam the drill bit which is stuck in the

brace? I doesn't fit in the toolbox that way! 8=))

72, Bruce Prior N7RR in Blaine, WA -- member of the American Alpine Club

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Fri, 17 Dec 1999 18:27:02 -0700  
From: "Steve/n0tu" <n0tu@webaccess.net>  
To: "QRP-L" <QRP-L@lehigh.edu>  
Subject: [58321] Catch Monday's FOX! 0200utc  
Message-ID: <004a01bf48f7\$bb399ba0\$5448460f@snp.webaccess.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The FOX will run Monday night at (0200 UTC 12/21).  
FOX: - CQ FOX de N0TU 559 CQ Steve nr 911  
Freq:~ 7043KHz or 7037KHz depending on local QRM!  
Rig: K2 or Sierra @4.5W  
Ants: horizontal loop - 820' at 40' & G5RV at 35' it favors N&S

Log: paper and pencil - I'll be slow at this so be kind.  
xx  
Please call only once and off my TX freq so others can hear my response.  
I'll try to avoid responding to "zerobeaters" and multi-callers.  
xx  
My mission is to have FUN. Steve/n0tu - Monument, Colorado

-----  
Date: Fri, 17 Dec 1999 21:11:04 +0000  
From: "Benjamin F. Poinsett" <benmail@erols.com>  
To: qrp-l@lehigh.edu  
Cc: benmail@erols.com  
Subject: [58322] Re: CTHA?  
Message-ID: <385AA6E7.60B3@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: quoted-printable

Gang,

On 18 November 1999, I asked if anyone on the QRP-l had =

experience with the Contrawound Toroidal Helical Antenna(CTHA).

I would like to thank all who replied to that request. Unfortunately, none of the responders had had any =93hands on=94 experience with this antenna. All responders seemed to be skeptical about the CTHA=92s performance.

One responder directed me to an article in the online magazine ANTENNEX. I don=92t have a subscription to this publication but I did view the ANTENNEX cover with a gentleman holding a =

CTHA. Apparently the article is about this gentleman=92s =

unhappy experiences with the CTHA. He felt the performance =

was not up to =93snuff.=94 I didn=92t read the article, but would like to if anyone has a copy they can send me.

I did send a request to the ARRL for more information on the CTHA. Michael Tracy, ARRL Lab, responded to my request. He stated that he had done the QST advertising acceptance testing on the CTHA. His comment on the performance of the CTHA was, =93It isn=92t =

going to burn up the bands, but would be worth considering if =

you can=92t have any other kind of antenna.=94 He also noted that =

a tuner is necessary to use this antenna. =

His comments agreed with what I had seen in a =93white paper=94 from West Virginia University=92s CIRA, the developers of the =

CTHA. Their claims were that with optimization the CTHA would =

have a gain in the range of -3dBd to -10dBd. Not bad for =

such a small package.

As I stated in the first posting the CTHA seemed pricey. As a =93cliff dweller=94 in an urban district indoor antennas are the =

only way I can operate from this location. So I will continue my search for a HF indoor antenna. =

I have used the WW II OSS recommended clandestine antenna configuration



with some success. That is, a random wire in the unit with a counterpoise. I have found that indoor dipoles are not good performers in my unit. I have experimented with loop antennas that are greater than 1/10th of a wavelength in circumference(not small or magnetic loops) with some success.

Obviously, with indoor antennas each location is unique. So what may work one place may not work in another place. Experimentation is the name of the game. And that=92s what I=92ll keep doing. Anyone else out there living in an urban district in a brick, concrete, steel,and aluminum building let me know what you=92ve got for indoor HF antennas and how they work.

Thanks again -- 72 & 73,

Ben Poinsett, K3BP  
Bethesda,MD

-----  
Date: Fri, 17 Dec 1999 21:12:58 -0500  
From: "Al Gritzmacher " <ae2t@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [58323] Re: FOX #16 - N4DD - Dennis @ East TN  
Message-ID: <199912180220.VAA22677@mx2.localnet.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

I fell asleep (I work midnights and was up all day) and didn''t wake up until half-hour into the hunt. Heard N4DD right on 7037, as promised, about 559 at first. The pile of hounds was HUGE! Dennis was working them at a fast clip too.

Unfortunately, he faded to the point that I couldn't have known if he answered me, so I quit for a while. I hoped the band would change and some shorter skip would help me out. I checked back periodically, but no copy, though the hounds were still in force. Finally heard him again, whisper-weak for the last few minutes, but no hope of working him.

I'm afraid my best chance of working Dennis was the first half-hour and I slept through it :-(

On 16 Dec 99, at 4:18, Tom Palmer wrote:

> N4DD - Dennis: GREAT JOB!  
> Can't wait to see your LOG.

>  
> You have SUPER ears!  
>  
> I think Dennis can hear a knat wearing tennis shoes  
> tip-toeing in Alaska. Proof: Dennis was able to  
> pick out AB7MY at 0357 and VE6EWM before that.  
> WOW! AB7MY (Gary in AZ.) was no stronger than 229 here in FL.  
> I doubt he was much stronger in East TN.  
>

Heard AB7MY here, with a decent signal. Must be a north-south thing.

> The only Hound I could hear calling (here in SW FL) that Dennis was  
> not able to pick up was W0JOE, Joe in MO. Just a little too much  
> QRM around 0350 until 0400. Dennis came back to Joe (twice) with  
> "W0?" but Joe just could not quite make the contact. Too bad! That would  
>  
> have been a VERY fine pelt. I was pulling for you, JOE.  
>

Heard W0JOE here too. (Who could forget that call!) Quite copiable.

Great job, Dennis, even if I didn't get your pelt!

=====  
The amazing thing about QRP is not how many contacts are made, but that they are made at all. Every QSO is a contradiction of conventional wisdom.

72,

Al Gritzmacher, AE2T

QRP-L #1664 QRP-ARCI #9837 K2 #274

ae2t@arrl.net

<http://members.localnet.com/~ae2t/>

QRP - If you don't try, you'll never know!

-----  
Date: Fri, 17 Dec 1999 18:59:51 -0800  
From: David Kidd <ka7ozo@pacifier.com>  
To: qrp-l@Lehigh.EDU  
Subject: [58324] RE: MFJ Pocket Morse Tutor (MFJ-411)  
Message-ID: <v03007801b480a8a543be@[206.163.5.44]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I dug out my old MFJ Pocket Morse Tutor to loan to a friend who wants to

get his 5 wpm....but I can't find the paperwork for it. Does anyone have a copy or could send me the info as to what letters are in character sets C-1 to C-7.

Please send replies to ka7ozo@pacifier.com

Thanks.

Dave  
KA7OZO

-----  
Date: Fri, 17 Dec 1999 21:06:29 -0700  
From: "James R. Duffey" <jamesd1@flash.net>  
To: Qrp-l@lehigh.edu  
Subject: [58325] Receivers: More on Active Filters  
Message-ID: <199912180406.WAA28964@ogopogo.flash.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

All - I think that Tom and I have kind of exhausted the subject of RC opamp active filters vs. switched capacitor (SCAF) active filters. I hope that the discussion was useful to some readers. Thank you for indulging us.

It dawned on me that we left some basic considerations on active filters untouched. I thought I would touch on some of these now.

1. Selectivity is best added early on in a receiver. As such, a narrow IF filter is a better investment than an active filter if you don't already have a narrow IF filter. If all the stages of a receiver are linear then it doesn't matter where the selectivity occurs. However, few active stages in a receiver are completely linear so having selectivity early on avoids some of the nasty effects of non linear stages.

This brings up a small paradox, that is if you already have a narrow IF filter an audio filter won't make a great deal of improvement, but if you don't have a narrow IF filter an audio filter will make a big difference, but you will be better off without it and getting a narrow IF filter instead.

2. If possible, it is best to have selectivity inside the AGC loop. This

prevents the AGC from reducing the gain on strong off frequency signals. Audio AGC is usually not as good as AGC derived earlier on in the receiver, so few receivers incorporate the audio filtering inside the AGC loop. I think that the old Argonauts used to have it. It is worth considering if you are designing a receiver. Of course it is not possible to put an external audio filter in the AGC loop, although some DSP units do have self contained AGC units to keep the signal within the dynamic range of the Analog to Digital Converter.

3. There are two main reasons to use filtering in a receiver, including audio filtering. The first is to reduce off frequency interference from other stations and the second is to reduce noise so as to hear weak signals better.

These two requirements can lead to different types of filters being employed. To reduce off frequency interference, filters that have steep walls are desired. In trying to pick a weak signal out of noise a filter that has little ringing is useful. The filters with steep walls usually have poor impulse response and cause a lot of ringing. The filters with good clean impulse response (no ringing) usually have skirts that aren't very steep.

The response of a filter as a function of frequency  $f$ , is given by the equation

$$V_{out}/V_{in} = 1/(1+F(f/f_c))$$

Where  $V_{out}$  is the output voltage of the filter,  $V_{in}$  is the input voltage to the filter, and  $f_c$  is the cutoff frequency of the filter.  $F(f/f_c)$  is a function which describes the frequency response of the filter. Different functions will give filters with different frequency responses. Popular functions that can be used include Gaussian, Bessel, Butterworth, Chebyshev, Cauer, and elliptical. These all give different responses. The Gaussian and Bessel have the best impulse response and the least ringing. The others have sharper walls, but can ring a lot.

In general the Bessel and Gaussian have the least ringing, and the ringing does not grow very fast as more poles are added. The Chebyshev, elliptical and Cauer can have very steep sides, but can also ring considerably. Also as the number of poles are added the ringing can get quite severe.

The interesting thing about all of these filters is that they all have the same schematic. Only the component values are different!! - Dr. Megacycle  
Kk6MC/5

James R. Duffey Kk6MC/5  
30 Casa Loma Road  
Cedar Crest, NM 87008

-----  
Date: Fri, 17 Dec 1999 23:48:22 -0500  
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>  
To: njqrp@njqrp.org  
Cc: QRP-L <qrp-l@Lehigh.EDU>  
Subject: [58326] Re: Atlanticon 2000 QRP Forum ... open for reservations!  
Message-ID: <385B1216.A15ED63E@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

My check is in the mail!!! Wouldn't miss it for the world.

George Heron N2APB wrote:

>  
> The NJ-QRP Club is very pleased to announce details concerning the  
> Atlanticon 2000 QRP Forum, being held on March 24-25, 2000 in the attractive  
> suburbs of historic Philadelphia, PA.  
>  
> This will be the second year that this major east coast QRP weekend will be  
> conducted ... last time over 125 avid QRPers converged in Maryland to  
> witness 7 brilliant technical presentation from leading experts in our QRP  
> community. We're keeping the same format and building on the excitement  
> from the 1999 forum to make Atlanticon 2000 even better for everyone  
> involved.  
>  
> The Atlanticon 2000 QRP Forum will be held at the Ramada Inn at the corner  
> of Rt. 1 and Rt. 202 in Glen Mills, PA. This is a small affluent suburb  
> about 20 minutes from the historic sites of downtown Philadelphia, easily  
> accessible from the airport (15 minute ride by shuttle), and by automobile  
> via major expressways (Rt 95 on the east, and the Penna Tpk from the west).  
>  
> THE SPEAKERS  
> We have a growing list of confirmed speakers for Atlanticon 2000: Chuck  
> Adams (K7Q0), Dave Benson (NN1G), Joe Everhart (N2CX), and Gary Diana  
> (N2JGU). These experts in our QRP field are preparing very exciting  
> presentations that will be of great interest to all.  
>  
> THE AGENDA  
> Now as far as the our "agenda" for the weekend ... FUN! It will be QRP  
> heaven, as you'll see below:  
>  
> 1) FRIDAY EVENING ... the QRP hospitality room opens up on Friday evening at  
> 7pm providing time to socialize with our friends, drool over the QRP vendor  
> tables that will be present, and just plain catch up in person with guys  
> displaying their homebrew projects and kits.  
>

> 2) SATURDAY ... the doors open at 8am for sign-in for the all-day  
> presentations. Seven presentations in total will be delivered throughout the  
> day in a very comfortable classroom-like room. The "mini-auditorium" well be  
> using is just fabulous for our purpose. Think of the seating arrangement  
> for a small movie theater (padded and reclining seats, arranged on a sloping  
> floor focused on the front screen), and add the little fold-up table for  
> taking notes ... reminds me of a typical college seminar classroom theater,  
> seating over 200. This will be \*very\* nice for sitting in all day long.  
> There's also a dedicated mini-lobby just outside the presentation theater,  
> providing for ample mingling area, the bottomless coffee urn and sodas.  
> Perfect!

>

> 3) SATURDAY EVENING ... the culmination of our perfect weekend is another  
> evening in the large hospitality room, which by the way is right next to the  
> presentation theater! It's here where we'll be hosting the famous Building  
> Contest. QRPers will be bringing their projects for display and judging in  
> two different categories: Manhattan-Style construction, and kit building of  
> any other type. There is a strong theme of Manhattan-style construction,  
> right in theme with the Winter issue of QRP Homebrew magazine in which Chuck  
> Adams has the featured spotlight with an extensive Manhattan construction  
> tutorial, and in theme with Chuck's and Joe's presentations that day the  
> Forum. And there's no one better than K7QO and N2CX to judge the contest  
> entries. With a couple other special twists, this evening will be very  
> memorable!

>

> GLEN MILLS, PA  
> This site in Glen Mills, PA was chosen to offer QRPers and their families  
> attending the QRP forum a chance to also see some beautiful parks and  
> attractions relating to the Civil War and Revolutionary War time periods.  
> Famous museums, battlefield parks, fabulous professional gardens (even  
> during March!), the Liberty Bell, and other Phila attractions are likely to  
> grab the interest of many, and are only minutes driving time away. A Sunday  
> unwinding time, or an early arrival warm-up adventure, makes a perfect  
> topping to the fun QRP weekend.

>

> THE RAMADA INN  
> The Ramada Inn is beautiful and the rooms are newly-renovated and spotless.  
> There's a nice bar, a good restaurant, a small workout room, and plenty of  
> parking. In fact, if you are fortunate to get a southern-facing room on the  
> third floor, there's a good chance of being able to pitch a long wire out to  
> the fields behind the hotel. As soon as the film gets developed we'll get  
> the photos posted on the Atlanticon webpage for you to see for yourselves.  
> The local area in Glen Mills is relatively upscale, slightly congested, but  
> full of great eateries, shops, shops and more shops. (The biggest mall  
> along the eastern seaboard, King of Prussia Mall, is only 20 minutes away  
> ;-)

>

> RESERVATIONS

> We've arranged special rates for the weekend: \$79+tax per night! This beats  
> most other hotels in the area, and is consistent with our efforts to  
> minimize the hits to our pocketbooks. To reserve your room for Friday and  
> Saturday nights, call the hotel directly and ask for one of the rooms in the  
> special-priced block set aside for the Atlanticon QRP Forum.

> Ramada Inn  
> 11 Baltimore Turnpike  
> Glenn Mills, PA 19342-1099  
> telephone: (610) 358-1700  
>

> REGISTRATION

> Admittance to Atlanticon will be \$10, collected either at the hotel that  
> weekend, or in advance by mail. Make checks payable to "George Heron,  
> N2APB" and mail to:

> George Heron, N2APB  
> 2419 Feather Mae Court  
> Forest Hill, MD 21050  
>

> For those able to commit to attending early on, we have a special fun  
> project in the works in which you'll be able to participate even before the  
> QRP weekend. More next time on this.  
>

> We also ask those planning on attending Atlanticon 2000 to send us an email  
> with your name and address in order to allow us to create your custom badge,  
> and to reserve a printed compendium of all the presentations being given  
> that day. These compendiums of the various QRP forums throughout the year  
> have grown to be collectors items, and this one is already in the planning  
> and editing stage.  
>

> So much to describe, so much to tell ... We'll have much more detail in the  
> coming weeks for everyone thinking of coming. But go ahead and reserve your  
> room at the Ramada Inn for March 24th & 25th for an absolute fun-filled QRP  
> weekend that is destined to be memorable. Ask anyone who attended the last  
> Atlanticon ... it was great!  
>

> 72, George N2APB  
> n2apb@amsat.org  
> for the NJ-QRP Club at <http://www.njqrp.org>  
> See the Atlanticon webpage for more information, maps, etc:  
> <http://www.njqrp.org/atlanticon/>  
>

> ===== NJ QRP Club Mailing List =====  
> To unsubscribe from this list, send email to [listserver@vramp.net](mailto:listserver@vramp.net)  
> and put the text "unsubscribe njqrp" in the message. To post a  
> message to the list, send email to [njqrp@njqrp.org](mailto:njqrp@njqrp.org).

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

-----  
Date: Sat, 18 Dec 1999 04:24:33 -0000  
From: "Walt Amos" <waltamos@surfree.com>  
To: <myetsko@insydesw.com>  
Cc: "Qrp-l Posts" <qrp-l@lehigh.edu>  
Subject: [58327] I care .....  
Message-ID: <009501bf4915\$b73afb20\$97891b26@waultk8cv>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 8bit

You know Mike, a 50 ohm across the feed point of an antenna work great on all bands also. :-)

Walt k8cv

-----  
Date: Fri, 17 Dec 1999 22:36:38 -0800  
From: "Tom Scott" <tscott@eni.net>  
To: "'qrp-l Reflector'" <qrp-l@Lehigh.EDU>  
Subject: [58328] Mast extension above a tree-top ? ? ?  
Message-ID: <000d01bf4922\$8602a820\$ca443604@wyle.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This is an idea that I've kicked around but never tried yet.

The idea occurred to me because I've found that when I have say a 50 foot fir tree, it's difficult to get a solid branch much above 40 feet. The tips are pretty wimpy branches. If I do manage to shoot a line into the very top of the tree, once I put a load on the line, it tends to deflect and slip off the first few branches until it finds a stiffer branch five or ten feet farther down.



When I used to have a lot with 100-foot-tall Douglas Fir trees, I didn't care quite so much, but now I'm looking at trees that are 40 to 50 feet max. With that in mind, I've been toying with climbing the tree up to say standing on a branch fifteen feet from the top, reaching up to a point ten feet from the top, and then sliding a 20' aluminum mast up from there. With some sort of fixture to tie it to the tree. If you imagine nesting the mast between radial tree branches on the side of the tree trunk opposite to the direction that your wire will stretch, it would seem that tying the base of the mast around the tree trunk at two places say a foot or two apart might be sufficient. The antenna wire tension would pull the mast against the tree trunk and wedge it into those radial branches. This seems like it might be a way to get as much as 20 feet more useful height out of a sound tree. You could pre-attach a pulley to the top of the mast and run a messenger line through that to minimize the chance of needing to ever climb up and remove it.

I wouldn't recommend this with something like a eucalyptus cause they are notorious for having poor root systems anyway, but a good sound tree with solid roots seems like it would make a pretty good mast base. A little crazy, but I keep thinking that it just might work.

Any opinions, or speculation? Has anyone ever tried this?

Just curious.

- Tom

[illegible]

Date: Fri, 17 Dec 1999 22:37:55 -0800  
From: "Tom Scott" <tscott@eni.net>  
To: "'qrp-l Reflector'" <qrp-l@Lehigh.EDU>  
Subject: [58329] Antenna reflector list?  
Message-ID: <000e01bf4922\$8b79e340\$ca443604@wyle.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Did someone say that there is an antenna reflector list somewhere? Could I get a pointer to the subscribe info?

- Tom

\_\_\_\_\_  
?Tom Scott - Wyle Electronics - KD7DMH  
10300 SW Nimbus Ave #PB, Portland, OR 97223  
503-603-1931 - Tel 503-684-6620 - Fax  
503-703-2032 - Cell  
\_\_\_\_\_

-----  
Date: Sat, 18 Dec 1999 01:28:53 -0600 (CST)  
From: aweiss@usd.edu (Ade Weiss WORSP)  
To: qrp-l@lehigh.edu  
Subject: [58330] 160m QRP DXCC  
Message-ID: <199912180728.BAA20758@sunburst.usd.edu>

Hi gang:

I would suggest that a more realistic goal might be in order for those who like 160-- namely, WAS QRP. This is more or less realizable, depending upon your QTH and antenna system.

QTH -- I'm located sort of ideally for QRP WAS -- right smack in the middle of everybody. East Coasters and West Coasters have a more difficult proposition working to the other side of the country. For once, SD ain't so bad a place to be! Last CQ 160 I worked something like 46 states -- including KH6 and KL7. Filled in a couple this ARRL 160m contest. I hope to finish in the Jan CQ 160 test.

As far as DX is concerned, this is the worst place to be. The "coasters" are closer, but more importantly, their first ground-hop is actually sea-water, a 10dB or so savings. I don't actually hear DX here -- in large part due to my antenna and the noise. I worked KH6 last Jan and last month, the first time with difficulty, and this time rather easily.

Get a copy of ON4UN's {Low Band DX'ing} if you want to find out what kinds of antennas the "big guys" use to make their QRO DXCC's. Incredible stuff in many instances. 5 watts to a low (i.e., under 140-ft) horizontal isn't going to do it, and given the noise on 160, beverage antennas are necessary to even hear a lot of DX. A shortened vertical has a much better chance, but a really extensive radial system is needed -- very long and very

many.

Here, my antenna this time is my fullwave 30m center-fed. That is configured as a top-loaded "T" vertical. The vertical portion is about 78-ft, with a 15-ft horizontal run across the roof. As it turns out, EZNEC said that it resonated at around 2.1mHz. So, I bottom-loaded it as well to resonance on 1810kHz. The radial system is minimal -- 9 66-ft radials (all that my lot can handle!) stretched E-S-W on the south side of the house -- no radial to the north. I take all my other radials ( about 30 of various lengths 18-ft to 33-ft) and lay them out for the contest. The base impedance of the antenna is still up in the 40's, so a lot of ground loss still remains. Last year, it was a 70-ft end-fed doing service as an Inverted-L. I wa totally blown away this fall in actually making QSO's since the noise level here was s7/8. How did those guys copy me?

Back in the late 60's during my brief QRO stint on 160m, I had a 1900-ft longwire up 90-ft. with 100w I worked stuff like HK0 and ZB2, but not much else. My impression is that QRP just won't do the job without an incredibly good antenna -- and even then, it would take many seasons.

One thing about 160m -- it is not kind to inefficient low antennas.

Perhaps Bill Kelsey ought to take up the challenge with his 160 antenna -- he's got a great one as he reported in his DX contest post a while back. So, Bill -- how's DX wqith your antenna and 5 watts? You're the one to ask.

160m is a fun band anyhow. Most of us operate 160m with rather inefficient antenna systems -- but it is difficult!

72, Ade

-----  
Date: Sat, 18 Dec 1999 06:20:35 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <waltamos@surfree.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [58331] Re: I care .....  
Message-ID: <004c01bf494a\$64e06ba0\$e15efea9@dads-hp>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

>You know Mike, a 50 ohm    across the feed point of an antenna work great on

>all bands also. :-)  
>  
>Walt k8cv

That's true. But then, there's been times when I've USED a 50 ohm dummy load, with a short stub of wire a few inches long soldered to it to radiate just a bit, for a purpose that made sense (although maybe only to me!)

It's a noble goal to be the best, and have something that is 'the best'. But sometimes that's NOT the goal. Sometimes the goal is to 'just work'.

This sorta falls into the same argument as the "best tool" vs the "best tool for the job" are not always the same thing.

Mike

-----  
Date: Sat, 18 Dec 1999 06:57:13 EST  
From: Wa3ptg@aol.com  
To: qrp-1@lehigh.edu  
Subject: [58332] RE: Need (want) Norcal Cap Kit  
Message-ID: <0.8b172e1e.258cd099@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Looking for a Norcal Cap Kit.

Melting Solder.

WA3PTG  
Harry (Hap) Hurst  
Wilmington DE

-----  
Date: Sat, 18 Dec 1999 05:32:50 -0700  
From: "Rod Cerkoney" <rwc@frii.com>  
To: <tscott@eni.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [58333] Re: Antenna reflector list?  
Message-ID: <00fd01bf4954\$6f4d9860\$2857aecf@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Tom, et.al.

----- Original Message -----

From: Tom Scott <tscott@eni.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Friday, December 17, 1999 11:37 PM  
Subject: Antenna reflector list?

> Did someone say that there is an antenna reflector list somewhere?  
Could I  
> get a pointer to the subscribe info?

Point your web browser at [www.qth.net](http://www.qth.net) the first page is a list of  
email reflectors, antennas is one. You can sign up right on the web  
page.

---

72/3 Rod, N0RC -- Fort Collins, CO

-----

Date: Sat, 18 Dec 1999 06:53:21 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Tom Scott <tscott@eni.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [58334] Re: Antenna reflector list?  
Message-ID: <Pine.BSI.3.96.991218064911.19255C-1000000@usr01.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 17 Dec 1999, Tom Scott wrote:

> Did someone say that there is an antenna reflector list somewhere? Could I  
> get a pointer to the subscribe info?  
> - Tom

If you want to the antenna mailing list, you can send mail to

<Majordomo@qth.net> with the following command in the body of your email message:

subscribe antennas

or from another account, besides ctrask@primenet.com:

subscribe antennas ctrask@primenet.com

If you ever want to remove yourself from this mailing list, you can send mail to <Majordomo@qth.net> with the following command in the body of your email message:

unsubscribe antennas

or from another account, besides ctrask@primenet.com:

unsubscribe antennas ctrask@primenet.com

If you ever need to get in contact with the owner of the list, (if you have trouble unsubscribing, or have questions about the list itself) send email to <owner-antennas@qth.net> . This is the general rule for most mailing lists when you need to contact a human.

[Last updated on: Sat Aug 23 1:12:34 1997]  
Antennas is a mailing list (reflector) devoted to discussing, comparing, evaluating, designing, and constructing antennas (aerials) of all types, especially for amateur radio, SWL, scanning, and monitoring.

- \* Design and Evaluation
- \* Modeling, Optimizing
- \* Analysis Software
- \* MF, HF, VHF, UHF, SHF
- \* Construction Projects
- \* Anything Else Antenna Related

To join Antennas, send email as follows:

TO: majordomo@qth.net  
SUBJECT:  
BODY: subscribe antennas

Post to Antennas as follows:

TO: antennas@qth.net

Antennas is sponsored by Al Waller K3TKJ and routine administrivia

[illegible]

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)  
<http://www.primenet.com/~ctrask>

Date: Sat, 18 Dec 1999 08:59:36 -0500  
From: Paul Stroud <aa4xx@ipass.net>  
To: "Kevin F. Glynn" <kfglynn@prodigy.net>  
Cc: liqrp@vramp.net, klqrp <klqrp@waterw.com>, njqrp <njqrp@njqrp.org>, qrp-1@Lehigh.EDU  
Subject: [58335] Re: WQ4RP Super Vertical  
Message-ID: <385B9348.DBFF745A@ipass.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

```
>  
> Hey JohnPaul (AB4PP),  
>  
> I'm glad I was able to work the QRPowWow on 40M tonight.  I just  
> turned the rig down to a watt and it did the trick.  
>
```

> What were you guys using for antennas. I bet they  
> were fancy.

Hi Kevin,

Yessirreeee, that 40M vertical was a super secret design. We were going to run the 34 foot vertical wire as a 20M have-wave all nite, but since 20M folded up, we loaded the wire on 40M by "alligator clipping" the feedline's center conductor to the vertical wire. The coax shield was our only radial :-)) :-)) It was really cold Thursday nite, so we didn't feel like running a bunch of radials. Our first 40M contact was with W3BB0, who gave us a 579, which made me laugh out loud! I guess sometimes Murphy takes a back seat.

Thanks to all the guys who made it a fun evening under the stars.  
72, Paul AA4XX

-----  
Date: Sat, 18 Dec 1999 08:33:31 CST  
From: "Jeff Gold" <jeffmgold@hotmail.com>  
To: support@elecraft.com, erics@elecraft.com, qrp-l@lehigh.edu  
Subject: [58336] SSB adaptor power help  
Message-ID: <19991218143331.34635.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Hello,

sure would appreciate some help.

I have built the SSB adaptor, installed it and done all the setup and testing listed in the instructions. The rig worked fine on 40 meters after I set it up. The power output on the upper bands is VERY low. The receive seems good all bands.

thanks  
72  
Jeff, AC4HF

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Sat, 18 Dec 1999 09:46:20 -0500 (EST)  
From: Chris Cartwright Sr <ccart@phideaux.com>



To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [58337] CONTEST: Holiday Milliwatt CW Contest  
Message-ID: <Pine.LNX.4.04.9912171054150.2827-1000000@dns.phideaux.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

QRPP'ers,

With a little luck (and even more patience from my wife) I'm planning on putting the MDmW Club call WQ3RP on the air for the three days of the mw contest. Question is, what power should I run? My leaning is to go 900mw and hand out as many points as possible, but I've had good luck from my QTH at 250mw... what to do, what to do. BTW, I'm making myself ineligible for prizes since I sponsered one, and the other is sponsered by WQ3RP :)

There is the possiblily that I'll be /M or /P for some of those days (five kids to drag around to the grandparents etc) so while I'll definitely be QRPP, I'm just not sure from where. Could be MD/DE/PA. I know that's not much to go on, but remember no skeds. I haven't seen too many other Club stations make mention of being on for the 'test.

So, any comments? Any suggestions from the big guns on the list as to what bands and when? I think I'll stick with 15/20/40 so I can toss in some N/T+ time. I wonder if there's any chance of changing my name to Zeb before the end of the year...

I've found some sites regarding ALC mods, and N4BP's is probably about the best one I've seen, here's a few URL's;

<http://wg104a.wh.uni-stuttgart.de/~n4bp/alcladj.jpg>  
<http://home.att.net/~alan.kaul/alcl.html>  
<http://www11.cds.ne.jp/~cqdx/engtx.htm>  
<http://www.homeusers.prestel.co.uk/g3ycc/ts50.htm>

I'm hoping to see a bunch of mesages asking how to lower the power, and measure milliwatts :)

tnx es 72

-- Chris Cartwright, Technical Engineer | ccart@phideaux.com --  
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --  
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

-----  
Date: Sat, 18 Dec 1999 07:54:50 -0700  
From: "Rod Cercone" <rlc@frii.com>  
To: "Low Power Amateur Radio Discussion" <grp-1@Lehigh.EDU>, <elecraft@qth.net>  
Subject: [58338] Kokopelli 1, Log and soapbox  
Message-ID: <014f01bf4967\$ee125060\$2857aecf@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

#### Kokopelli 1--A day at Veedauwoo, Results

BAND	TIME	STN	RST-S	RST-R	QTH	NAME	K2SN/Pwr
28	1853	W3ANK	589	579	PA	George	518
28	1922	KB7CUS?		--	NO CONTACT	--	
21	1925	K7GT	599	579	CA	Alan	257 but he was using a different rig
21	1955	AC5TN	579	559	AR	Lance	nsn/?W
21	2018	W2KJ	559	439	NC	Joe	nsn/?W
21	2028	W6ZH	589	559	CA	Peter	486
21	2042	W3BBO	559	569	PA	Bob	690
21	2049	W6TOY/3	559	339	MD	Bruce	5W
21	2058	WA8LCK	599	539	MI	Byron	nsn/?W
21	2104	AA3SJ	599	569	PA	Ed	656
21	2122	VE6AAN	559	559	AB	Pat	4W
21	2132	N2WG	559	339	NC	Bill	245
21	2144	W6PRL	559	589	CA	Dan	5W
21	2155	W3ANX	599	589	PA	George	518
7	2206	N0SS	559	449	MO	Tom	008 !
14	2229	W6TOY/3	449	--	NO CALLBACK	--	
14	2250	WA3PTY	579	459	PA	Al	nsn/?W
14	2302	AB5UA	569	559	OK	Clif	2W
14	2308	NN5B	579	579	TX	Jerry	3W
14	2315	K5NU	579	569	TX	Mike	381
7	2327	N0TU/M	579	579	CO	Steve	nsn/?W
	2353			--	QRT	--	

I tried to stay on a band for 20-30 min before changing switching.

Send fills and corrections and I get QSL cards out in a week or two.

#### Kokopelli 1--A day at Veedauwoo, Soapbox

Despite what the WX channel said, Fri was not partly sunny, or at

least

it didn't start out that way. It was mostly cloudy here in CO . The dark

"bunchy" kind of clouds that suggest precipitation. As I traveled north

to WY things didn't change much, it just got windy. About 30+ MPH from the west & south. As I transitioned from North bound I-25 to West bound

I-80 there were light snow showers in the air. And, it was still windy,

the blow-your-car-around kinda windy. A little further down the road the

clouds started to break up I could see snow capped peaks on the horizon.

On the radio one of my favorite oldies came on, Black Magic Women, by Santana. Mojo flowed, I glanced at the K2 on the seat next to me, it seemed to be smiling. I knew it was going to be a fun day.

I arrived at my general location about 9:30am, this was good, I wanted to have enough time to scout out a good operating location. At the exit

for Vedauwoo was another sign, Ames monument. I had plenty of time so I

took a little side trip. Turns out Ames Monument is the marker for the high point along the Union Pacific RR of the mid to late 1800s! It was built by UPRR in 1882, to mark the spot, it sits at 8200+ ft in elevation. A sign at the monument informs that a town once was near by,

Sherman, but has long since disappeared. I stayed there for a while and

let my imagination run, wondering what this place was like in the 1800s.

I considered Ames for an operation location. Wide open location, with horizons many miles away in all directions. I rejected the notion because of the wind, 30+ gusting higher may 40-50mph.

[Sidebar] Folks who have never been to WY don't know what I'm talking

about when I mention the wind. It is always windy in WY. To get an idea of how windy check out this link:

On to Vedauwoo, light snow is falling again as I enter the park. (As the

day wore on the skies cleared but the wind remained. Temps were in the upper 30's.) In the distance I could see Poland Hill, Turtle Rock, and Devils Playground--Rock formations carved over the millennia by the forces of nature. Not as grand in scale as Utah's Canyon Lands but against the juxtaposition of the high rolling plains of WY,

interesting.

In the air, above a broad flat plain, a hawk is soaring, nearly motionless. For those who want a better idea of where I was at: Trace out I-80 east bound from Laramie, WY. About 10 miles east of Laramie is the highest pt on I80, 8640ft, it should be marked on most maps. The next exit from there, a few more miles along I80, is the exit for Vedauwoo and the Ames monument.

By 11am I'm set up in a little depression near one of the rock formations, low pine trees scattered around, sheltered from the wind. Not an ideal Antenna location, but not bad either. I spent about an hour tuning the bands and listening to the NCDXF beacons to get an idea where to start. 10m was "iffy" but I gave it a try for a while, then dropped to 15m. That seemed to be the bread & butter band. The CA beacon was loud, and so was the HI beacon. Transposing those distances to the east I figured 15 got me coverage from the East coast & New England, on into the the eastern fringe of the Midwest. Oddly 20m did not produce many contacts although I did hear Bruce, W6TOY, responded but no comeback. On my end I was plagued by QSB too. Some station's first call was loud and clear, but they dropped into the mud for the exchange.

[SIDEBAR] Vedauwoo is an Arapahoe word meaning "Earth Born", and the site was used by Indians for ancient religious ceremonies. Perhaps it was the physics of propagation mashing our signals around. Or, maybe it was the ancient Indian spirits, toying with us. I prefer to think it was a little of both.

The setup on my end was my G5RV inverted-V style. A DK9SO collapsible mast holding up the center at about 30', the ends suspended about 6-8ft up. The mast was lashed to a nearby fence. Coax trail off the mast into the cab of my pickup. On the passenger side I had a large wide board resting on the seat, cantilevered outward onto a support in the footwell. Nice work surface, but a little cramped. I used my K2, #286, the whole time. An MFJ 949 did the antenna matching, and my Shurr Profi's did

the  
talking. Folks, the K2 is a great radio for this kind of operation. I  
set  
up the keyer to call CQ every 15 secs., I kept the filters wide and  
tuned the RIT (in wide mode) to find people. When things got quiet I  
was  
able to keep the CQs going while I tidied up the log or grabbed a  
snack.

Folk's I had a blast, and will be doing this again. In fact I may just  
schedule a day trip to WY 3 or 4 times a year. It's a great way to  
play  
hooky from work. ;-) This was something I've been wanting to do for a  
long time, since getting into QRP. Many thanks to Bruce, W6TOY for  
providing the catalyst to get me to act. Thanks to all who took time  
to  
seek me out, thanks for the QS0. To those I missed my apologies, there  
will be another time. Watch the lists for other Kokopelli Radio  
adventures.

---

72/3 Rod, N0RC -- Fort Collins, CO

-----

Date: Sat, 18 Dec 1999 06:57:35 -0800 (PST)  
From: Jim Durkin <jimdurkin@yahoo.com>  
To: tscott@eni.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [58339] Re: Mast extension above a tree-top ? ? ?  
Message-ID: <19991218145735.14909.qmail@web301.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Tom,  
In the Atlanta area, Bell South uses this method to  
deliver its cable tv to homes. It appears to have an  
antenna about a foot square on top which I suspect is  
used to pick up the relayed signal. I have examined  
the attachment to the trees and it appears they tap  
into the tree to secure the mast.

73

Jim kt4a

--- Tom Scott <tscott@eni.net> wrote:  
> This is an idea that I've kicked around but never

> tried yet.  
>  
> The idea occurred to me because I've found that when  
> I have say a 50 foot  
> fir tree, it's difficult to get a solid branch much  
> above 40 feet. The tips  
> are pretty wimpy branches. If I do manage to shoot a  
> line into the very top  
> of the tree, once I put a load on the line, it tends  
> to deflect and slip off  
> the first few branches until it finds a stiffer  
> branch five or ten feet  
> farther down.  
>  
> When I used to have a lot with 100-foot-tall Douglas  
> Fir trees, I didn't  
> care quite so much, but now I'm looking at trees  
> that are 40 to 50 feet max.  
> With that in mind, I've been toying with climbing  
> the tree up to say  
> standing on a branch fifteen feet from the top,  
> reaching up to a point ten  
> feet from the top, and then sliding a 20' aluminum  
> mast up from there. With  
> some sort of fixture to tie it to the tree. If you  
> imagine nesting the mast  
> between radial tree branches on the side of the tree  
> trunk opposite to the  
> direction that your wire will stretch, it would seem  
> that tying the base of  
> the mast around the tree trunk at two places say a  
> foot or two apart might  
> be sufficient. The antenna wire tension would pull  
> the mast against the tree  
> trunk and wedge it into those radial branches. This  
> seems like it might be a  
> way to get as much as 20 feet more useful height out  
> of a sound tree. You  
> could pre-attach a pulley to the top of the mast and  
> run a messenger line  
> through that to minimize the chance of needing to  
> ever climb up and remove  
> it.  
>  
> I wouldn't recommend this with something like a  
> eucalyptus cause they are  
> notorious for having poor root systems anyway, but a  
> good sound tree with



Sorry if I've been a pain during the year.

Yours in Christ,

Ian Purdie

-----  
Date: Sat, 18 Dec 1999 09:47:47 -0600  
From: "Walter Dufrain" <walter@inlink.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [58341] Re: WQ4RP Super Vertical  
Message-ID: <014d01bf496f\$87a813c0\$766ac4ce@nexar>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This is sorta sounding like the famous St. Louis  
Random Wire Vertical (RWV) that has been in  
use for a lot of years.  
72.....Walter Dufrain, AG5P.....Wright City, MO

-----  
Date: Sat, 18 Dec 1999 15:36:46 +0000  
From: Goran Hosinsky <hosinsky@jet.es>  
To: qrp-l@lehigh.edu  
Subject: [58342] Counterpoise question  
Message-ID: <385BAA0D.23F92993@jet.es>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi,

I want to install counterpoises for the 10 - 28 MHz band. Part of the  
run will be visible. To make  
a discrete installation I am thinking of using 7 strands of #28 magnet  
wire, slightly twisted  
together, each wire then cut to length for one band. Will this work or  
do I need to use thicker wires?

Saludos  
Goran   ea8yu



-----  
Date: Sat, 18 Dec 1999 08:24:32 -0800 (PST)  
From: Jim Durkin <jimdurkin@yahoo.com>  
To: tscott@eni.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [58343] RE: Mast extension above a tree-top ? ? ?  
Message-ID: <19991218162432.25903.qmail@web302.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Tom,

I went out to look at the 3 installations near me. They are attached to mast that appear to be made up of two sections of about 10 feet each. Looks like a brace is used to hold the mated sections together. The mast sections look to be slightly larger than an inch in diameter. On one setup a fluted end could be seen on one section. Wall thickness could not be seen well but the mast sections appeared to be heavier than the usual Radio Shack tv antenna mast.

The mast was only attached in the bottom of the two sections. This was done at two points about 4 feet apart. They were not lashed to the tree but mounted on plates with two u-bolts per plate.

The plates were attached to the tree with stand-offs of about 6 to 8 inches at each corner and these appeared to be screwed into the tree.

The plate at the bottom was about 10 inches up from the bottom of the mast.

The top of the mast extended about 4 to 8 feet above the tree top.

On one installation the bottom of the mast was resting on a tree limb. On the other two there was no support under the mast.

Some care had gone into making the masts vertical probably with a level.

I have never seen one of these installed. They were all in pine trees and were high enough up that I suspect a cherry picker was used.

For holding up a wire, a less robust installation would probably suffice. How about putting up a beam on one of these masts?

Good luck.

73

Jim kt4a

--- Tom Scott <tscott@eni.net> wrote:

> This is an idea that I've kicked around but never  
> tried yet.  
>  
> The idea occurred to me because I've found that when  
> I have say a 50 foot  
> fir tree, it's difficult to get a solid branch much  
> above 40 feet. The tips  
> are pretty wimpy branches. If I do manage to shoot a  
> line into the very top  
> of the tree, once I put a load on the line, it tends  
> to deflect and slip off  
> the first few branches until it finds a stiffer  
> branch five or ten feet  
> farther down.  
>  
> When I used to have a lot with 100-foot-tall Douglas  
> Fir trees, I didn't  
> care quite so much, but now I'm looking at trees  
> that are 40 to 50 feet max.  
> With that in mind, I've been toying with climbing  
> the tree up to say  
> standing on a branch fifteen feet from the top,  
> reaching up to a point ten  
> feet from the top, and then sliding a 20' aluminum  
> mast up from there. With  
> some sort of fixture to tie it to the tree. If you  
> imagine nesting the mast  
> between radial tree branches on the side of the tree  
> trunk opposite to the  
> direction that your wire will stretch, it would seem  
> that tying the base of  
> the mast around the tree trunk at two places say a  
> foot or two apart might  
> be sufficient. The antenna wire tension would pull  
> the mast against the tree  
> trunk and wedge it into those radial branches. This  
> seems like it might be a  
> way to get as much as 20 feet more useful height out  
> of a sound tree. You  
> could pre-attach a pulley to the top of the mast and  
> run a messenger line  
> through that to minimize the chance of needing to  
> ever climb up and remove  
> it.  
>

```
> Any opinions, or speculation? Has anyone ever tried
> this?
```

> - Tom

```
> ?Tom Scott      -      Wyle Electronics      -
```

```
> 10300 SW Nimbus Ave #PB, Portland, OR 97223
```

> 503-684-6620 - Fax

/ /

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-----

From: ARDUJENSKI@aol.com

To: TenTec@contesting.com, grp-1@lehigh.edu

Subject: [58344] WTB: CORSAIR I

Message-ID: <0.ab719a83.258d172f@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

WTB: Ten Tec CORSAIR I with matching PS and VF0 in good condition (a 9 out of 10). Will consider buying just CORSAIR I and matching PS if VF0 not available.  
Alan KB7MBI

-----  
Date: Sat, 18 Dec 1999 12:17:04 -0500  
From: "Ron Polityka" <wb3aal@talon.net>  
To: ". QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [58345] Fw: New Calendar is GREAT!  
Message-ID: <003901bf497b\$b53333e0\$4ae508cf@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----  
From: Carter Craigie <ccraigie@email.msn.com>  
To: Eastern PA QRP Club <epaqrp-l@Lehigh.EDU>  
Sent: Saturday, December 18, 1999 11:25 AM  
Subject: New Calendar is GREAT!

> Oh, boy, the Contest Calendar 200 for the QRP Community, by The Eastern PA  
> QRP Club is REALLY NIFTY!!!  
>  
> Boy, Ron, it is a sure winner. I bought 3, one for myself, one for my  
wife  
> Kay, and one for a friend who's not (yet) an EPA Club member! I'm glad I  
> did! Great Christmas presents guys!  
>  
> Great job, Ron! (Did I say that already?)  
>  
> THANK YOU!  
> Carter, N3AO  
> EPA Nr. 13  
>  
>  
>  
>

-----  
Date: Sat, 18 Dec 1999 12:17:29 -0500  
From: "Ron Polityka" <wb3aal@talon.net>  
To: ". QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [58346] Fw: 2000 Contest Calendar Received  
Message-ID: <004301bf497b\$c42000e0\$4ae508cf@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: Ken Newman <N2CQ@citnet.com>  
To: Eastern PA QRP Club <epaqrp-1@Lehigh.EDU>  
Sent: Saturday, December 18, 1999 10:20 AM  
Subject: 2000 Contest Calendar Received

> Nice Job on the 2000 Contest Calendar, Ron. (And Ed too?).  
> I read the whole calendar and there is much more than contests  
> included. (Cartoons even!). If anyone missed it, you missed a great  
product.  
> Thanks again, Guys!  
>  
> 72 de  
>  
> Ken Newman - N2CQ  
> Woodbury, NJ  
> N2CQ@ARRL.NET  
>  
> ~~~ QRP CONTEST CALENDAR ~~~  
> <http://www.kpsnet.com/wb3aal/Pages/Contest.htm>  
>  
> Eastern PA QRP Club Member #9  
>  
>

-----  
Date: Sat, 18 Dec 1999 11:27:54 -0500  
From: k5xu@concentric.net  
To: "qrp" <qrp-1@lehigh.edu>  
Subject: [58347] HTX-10 Observations and Questions  
Message-ID: <000201bf4975\$6211d3c0\$8a4aadce@mike>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Today, I'm breaking in the radio for the first time.

Thus far, the receiver appears to be quite adequate for the radio.

I wish that it included a 5 kHz tuning option, and that the tuning dial  
clicks weren't quite so pronounced.

Now, for a few questions:

Has anyone checked the transmitted noise in the SSB mode with the mic gain at 0? Mine appears to have quite a bit, according to the sound I hear in my main rig.

Also, I notice carrier in the ssb mode. It's probably within their specs, whatever they are, but it's very noticeable in my other receiver.

I doubt they would comprehend that problem if I questioned them about it, so unless I find other major breakdowns, I'll hope for a service manual to appear so that my best "Mr.. Fix It" friend can do a complete alignment.

If anyone has already explored and done that, please write it up and share it with those of us who can get it done with proper instructions but who have no desire to be the runner-up for the "Golden Screwdriver" award.

72,  
Mike Duke, K5XU, president,  
Mississippi Council of the Blind

-----  
Date: Sat, 18 Dec 1999 11:30:42 -0600  
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>  
To: <jimdurkin@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [58348] Re: Mast extension above a tree-top ? ? ?  
Message-ID: <002001bf497d\$9f975d20\$643c0b3f@default>

Somehow I wonder if this won't annoy (read tempt) the keepers of the Lightning!?

Mike in Minnesota

-----  
Date: Sat, 18 Dec 1999 12:54:47 -0500  
From: "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [58349] 10 meter miniPIG qso

Message-ID: <000b01bf4980\$fa050de0\$0102030a@amd300>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to all that tried to qso the miniPIG yesterday. We will try one more time on Sunday at 1700 UTC thru 1800 UTC on 28064. Will be running on batteries at 1 watt out into a half wave vertical next to the Toyota Truck. QTH will be Ryan's Steakhouse in Middletown, Ohio. Anyone that can monitor or even work the minipig would be greatly appreciated. Thanks to you all...

73 - Dieter (DIZ) Gentzow - WB8QYY "oo's"  
Loveland, Ohio - NE suburb of Cincinnati  
FPqrp#1 QRP-L#1998 10-X#9389 CATT#26 K2#493  
<http://w3.one.net/~gentzow/wb8qyy.htm>

-----  
Date: Sat, 18 Dec 1999 10:10:32 -0800  
From: Wayne Burdick <n6kr@elecraft.com>  
To: qrp-l@lehigh.edu  
Cc: ac7a@gci-net.com, jamesd1@flash.net  
Subject: [58350] Re: Receivers: CW Filters, More Comments from the Doctor  
Message-ID: <v0310280db481798dbe9d@[206.169.250.103]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Thomas, AC7A, wrote:

>A while back I followed the audio filter thread  
>on the Elecraft reflector. Wayne and Eric were soliciting inputs  
>from K2 users on what they would like to see from the  
>yet-to-be-released audio filter. Many stated their filter wishes, but  
>the point I thought was interesting is Elecraft stated that the filter  
>would be RC Active filters and not SCAF or DSP based. I believe  
>the issue had to do with studies on the SNR of such filters -  
>a subject I beat to death in the last posting.

< snip >

I've been reading the analog vs. SCAF discussion with interest. I don't think it was completely beat to death, although it may hibernate for the

winter. However, in the case of the K2, it isn't just about SNR; it's also pragmatics.

There are three reasons why the K2 audio filter option is likely to be analog:

1. The filter is to be inserted ahead of the final AF amplifier, a low-level point in the receiver that would definitely be adversely affected by SCAF or DSP noise and switching transients;
2. This is intended to be a low-cost option; the amount of space reserved for the board just accomodates a few op-amp stages (through-hole, not SMD), including balanced-to-unbalanced signal conversion at the input and the reverse at the output;
3. Since the K2 has sharp, variable-passband crystal filtering already (down to around 150 to 200 Hz), the audio filter is only intended as a supplement for improving SNR on CW.

In my own experience I have found that SCAF devices work best post-AF-amp and with large signals. Shielding is also required with some of them, since the clocks generate a lot of noise. The audio filter in the K2 will be a zero-birdies device.

If you want low-noise audio at low signal levels, nothing beats an analog filter using one of the many ultra low-noise op-amps, such as the OPA-27 (or at least an LM833 or NE5532).

73,  
Wayne Burdick  
N6KR

-----  
Date: Sat, 18 Dec 1999 13:41:30 -0500  
From: Gordon <gordon@znet.groupz.net>  
To: qrp-1@Lehigh.EDU  
Subject: [58351] new commer  
Message-ID: <4.2.0.58.19991218133725.00959100@mail.groupz.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

need info about contest and anything else I need to know about this list.  
have a ten tech argonaut 509 and been in the 10 mtr contest the last 3 yrs  
as qrp



any info will be appreciated

tnx Gordon W4KYW

-----  
Date: 18 Dec 99 18:45:58 America/Fort\_Wayne  
From: M Goins <mgoins@usa.net>  
To: qrp-1@Lehigh.EDU  
Subject: [58352] wattmeter comparisons  
Message-ID: <19991218184558.785.qmail@aw163.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

Is anyone using the LDG DWM-2 digital wattmeter? It can sample rf from 1=8 up to 54 MHz at up to 150 watts but I'm not sure how accurate it is at the 1=to 2 watts level. =

I use a Kenwood 440 at 1/2 to 1 watt much fo the time, but occasionally c=heck into a net at 100 watts. I'm leaning toward purchasing the Oak Hills WM-2=, but kind of like the digital readout. =

Anyone checked the accuracy here in the lower range (not milliwatt, but 1=-5 watt) for accuracy?

-----  
Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

-----  
Date: Sat, 18 Dec 1999 18:57:14 -0600  
From: "Richard McGaver" <mcgaver@execpc.com>  
To: <nielsen@primenet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [58353] Re: Short portable antennas  
Message-ID: <005401bf49bb\$ffeb83c0\$b880cfa9@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I have found them at a large chain Toys R Us

Rick NK 9G

-----Original Message-----

From: Bob Nielsen <nielsen@primenet.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Date: Friday, December 17, 1999 8:17 AM  
Subject: Re: Short portable antennas

>It sure has. Someone used to sell Slinkies for antenna use (I haven't  
>seen them advertised in many years, however).  
>  
>On Fri, Dec 17, 1999 at 08:55:55AM -0500, Cellobrown@aol.com wrote:  
>> Has the use of Slinkies as part of a shortened confined antenna (hotel  
rooms)  
>> been discussed?  
>>  
>> Charlie W1HZE #2085  
>  
>--  
>Bob Nielsen, W6SWE (RN2) Internet: nielsen@primenet.com  
>Tucson, AZ DM42nh AMPRnet: w6swe@w6swe.ampr.org  
>QRP-L #1985 <http://www.primenet.com/~nielsen>  
>

-----  
Date: Sat, 18 Dec 1999 19:18:03 -0000  
From: "colin" <gw3wsu@gw8nnc.screaming.net>  
To: "Low Power Amateur Radio QRP Discussion" <qrp-l@Lehigh.EDU>  
Subject: [58354] Daiwa CN620A  
Message-ID: <006701bf498c\$9c4e75e0\$f0fd31d4@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello gang. I wonder if anyone knows the accuracy of the Daiwa CN620A  
Power/SWR meter between 0 and 5 watts? This meter has 3 ranges 20w 200w &  
1kw. I use a dummy load plugged into the back mounted on a PL259 plug (15  
watts)

I hope everyone on the list has a very Happy time over the forthcoming

Holidays.

72/73 de Colin GW3WSU

G-QRP # 4641

FISTS # 4815

QRP-L # 2021

gw3wsu@gw8nnc.screaming.net

-----  
Date: Sat, 18 Dec 1999 10:47:25 -0700

From: "Steve/n0tu" <n0tu@webaccess.net>

To: "Elecrafft List" <elecraft@qth.net>, "QRP-L" <QRP-L@lehigh.edu>, <rlwc@frii.com>

Subject: [58355] Re: Kokopelli 1, Log and soapbox

Message-ID: <01aa01bf4992\$3c34a840\$5448460f@snp.webaccess.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hey Rod,

Sure sounds like you had fun!! I want to go with next time!! (Just kidding.) I know those kinda of experiences are really more special sometimes when you do them alone. But you sure made it sound like the kind of fun I could enjoy. Great reading/writing!

BTW , flying alone the interstate at 65mph, my solid copy ability tends to deminish. If u asked me for my K2-sn I truly missed it and missed u sending yours! I did have QSB, QRN, a car w/his brights on sniffing my exhaust pipe while I was tring to get back in the slow lane and the 65mph brain fading in-n-out business working against you. But It was a kick to end my work week with envisioning u sitting out there in the high plains with your 30' fiberglass whip with a G5RV flapping in the ceaseless Wyoming WIND. (I've ridden my bike along I-80 going into the wind for several hundred miles from SLC (it seemed much longer than that at the time ...that wind was a four letter word in that instance!!) But ur signal on 40m was steady most of the time peaking to S7. It was lightly snowing here w/little wind and low clouds w/pink sunset streaking through occasionally. Yes, I was using the K2 (sn313) at 4w to my trusty home-brew bug catcher on the quad/mag mount in the center of the roof. (wife hates this antenna but she knew I was wierd before we got welded ...so she can't whine too loud!) But thanks for adding another demision to my work day.

Hey MT is another difficult QRP state How about an MT RF adventure?

Great wrkin ya and reading ur post!! CUL Steve/n0tu

Nail that FOX - Monday (0200 12/21) -usual freqs

-----Original Message-----

From: Rod Cerkoney <rwc@frii.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Date: Saturday, December 18, 1999 8:02 AM

Subject: Kokopelli 1, Log and soapbox

>Kokopelli 1--A day at Veedauwoo, Results

>

>BAND	TIME	STN	RST-S	RST-R	QTH	NAME	K2SN/Pwr
>28	1853	W3ANK	589	579	PA	George	518
>28	1922	KB7CUS?		--	NO CONTACT		
>21	1925	K7GT	599	579	CA	Alan	257 but he was using a different rig
>21	1955	AC5TN	579	559	AR	Lance	nsn/?W
>21	2018	W2KJ	559	439	NC	Joe	nsn/?W
>21	2028	W6ZH	589	559	CA	Peter	486
>21	2042	W3BBO	559	569	PA	Bob	690
>21	2049	W6TOY/3	559	339	MD	Bruce	5W
>21	2058	WA8LCK	599	539	MI	Byron	nsn/?W
>21	2104	AA3SJ	599	569	PA	Ed	656
>21	2122	VE6AAN	559	559	AB	Pat	4W
>21	2132	N2WG	559	339	NC	Bill	245
>21	2144	W6PRL	559	589	CA	Dan	5W
>21	2155	W3ANX	599	589	PA	George	518
> 7	2206	N0SS	559	449	MO	Tom	008 !
>14	2229	W6TOY/3	449	--	NO CALLBACK		
>14	2250	WA3PTY	579	459	PA	Al	nsn/?W
>14	2302	AB5UA	569	559	OK	Clif	2W
>14	2308	NN5B	579	579	TX	Jerry	3W
>14	2315	K5NU	579	569	TX	Mike	381
> 7	2327	N0TU/M	579	579	CO	Steve	nsn/?W
>	2353			--	QRT		

>

>I tried to stay on a band for 20-30 min befor changing switching.

>

>Send fills and corrections and I get QSL cards out in a week or two.

>

>

>Kokopelli 1--A day at Veedauwoo, Soapbox

>

>Despite what the WX channel said, Fri was not partly sunny, or at  
>least

>it didn't start out that way. It was mostly cloudy here in CO . The  
>dark  
>"bunchy" kind of clouds that suggest precipitation. As I traveled  
>north  
>to WY things didn't change much, it just got windy. About 30+ MPH from  
>the west & south. As I transitioned from North bound I-25 to West  
>bound  
>I-80 there were light snow showers in the air. And, it was still  
>windy,  
>the blow-your-car-around kinda windy. A little further down the road  
>the  
>clouds started to break up I could see snow capped peaks on the  
>horizon.  
>On the radio one of my favorite oldies came on, Black Magic Women, by  
>Santana. Mojo flowed, I glanced at the K2 on the seat next to me, it  
>seemed to be smiling. I knew it was going to be a fun day.  
>  
>I arrived at my general location about 9:30am, this was good, I wanted  
>to have enough time to scout out a good operating location. At the  
>exit  
>for Vedaauwoo was another sign, Ames monument. I had plenty of time so  
>I  
>took a little side trip. Turns out Ames Monument is the marker for the  
>high point along the Union Pacific RR of the mid to late 1800s! It was  
>built by UPRR in 1882, to mark the spot, it sits at 8200+ ft in  
>elevation. A sign at the monument informs that a town once was near  
>by,  
>Sherman, but has long since disappeared. I stayed there for a while  
>and  
>let my imagination run, wondering what this place was like in the  
>1800s.  
>I considered Ames for an operation location. Wide open location, with  
>horizons many miles away in all directions. I rejected the notion  
>because of the wind, 30+ gusting higher may 40-50mph.  
>  
> [Sidebar] Folks who have never been to WY don't know what I'm  
>talking  
> about when I mention the wind. It is always windy in WY. To get an  
> idea of how windy check out this link:  
>  
>On to Vedaauwoo, light snow is falling again as I enter the park. (As  
>the  
>day wore on the skies cleared but the wind remained. Temps were in the  
>upper 30's.) In the distance I could see Poland Hill, Turtle Rock, and  
>Devils Playground--Rock formations carved over the millennia by the  
>forces of nature. Not as grand in scale as Utah's Canyon Lands but  
>against the juxtaposition of the high rolling plains of WY,  
>interesting.

>In the air, above a broad flat plain, a hawk is soaring, nearly  
>motionless. For those who want a better idea of where I was at: Trace  
>out I-80 east bound from Laramie, WY. About 10 miles east of Laramie  
>is  
>the highest pt on I80, 8640ft, it should be marked on most maps. The  
>next exit from there, a few more miles along I80, is the exit for  
>Veedauwoo and the Ames monument.  
>  
>By 11am I'm set up in a little depression near one of the rock  
>formations, low pine trees scattered around, sheltered from the wind.  
>Not an ideal Antenna location, but not bad either. I spent about an  
>hour  
>tuning the bands and listening to the NCDXF beacons to get an idea  
>where  
>to start. 10m was "iffy" but I gave it a try for a while, then dropped  
>to 15m. That seemed to be the bread & butter band. The CA beacon was  
>loud, and so was the HI beacon. Transposing those distances to the  
>east  
>I figured 15 got me coverage from the East coast & New England, on  
>into  
>the the eastern fringe of the Midwest. Oddly 20m did not produce many  
>contacts although I did hear Bruce, W6TOY, responded but no comeback.  
>On  
>my end I was plagued by QSB too. Some station's first call was loud  
>and  
>clear, but they dropped into the mud for the exchange.  
>  
> [SIDEBAR] Vedaauwoo is an Arapahoe word meaning "Earth Born", and  
>the  
> site was used by Indians for ancient religious ceremonies. Perhaps  
>it  
> was the physics of propagation mashing our signals around. Or,  
>maybe  
> it was the ancient Indian spirits, toying with us. I prefer to  
>think  
> it was a little of both.  
>  
>The setup on my end was my G5RV inverted-V style. A DK9SO collapsible  
>mast holding up the center at about 30', the ends suspended about  
>6-8ft  
>up. The mast was lashed to a nearby fence. Coax trail off the mast  
>into  
>the cab of my pickup. On the passenger side I had a large wide board  
>resting on the seat, cantilevered outward onto a support in the  
>footwell.  
>Nice work surface, but a little cramped. I used my K2, #286, the whole  
>time. An MFJ 949 did the antenna matching, and my Shurr Profi's did  
>the

>talking. Folks, the K2 is a great radio for this kind of operation. I  
>set  
>up the keyer to call CQ every 15 secs., I kept the filters wide and  
>tuned the RIT (in wide mode) to find people. When things got quiet I  
>was  
>able to keep the CQs going while I tidied up the log or grabbed a  
>snack.  
>  
>Folk's I had a blast, and will be doing this again. In fact I may just  
>schedule a day trip to WY 3 or 4 times a year. It's a great way to  
>play  
>hooky from work. ;-) This was something I've been wanting to do for a  
>long time, since getting into QRP. Many thanks to Bruce, W6TOY for  
>providing the catalyst to get me to act. Thanks to all who took time  
>to  
>seek me out, thanks for the QSO. To those I missed my apologies, there  
>will be another time. Watch the lists for other Kokopelli Radio  
>adventures.  
>  
>  
>---  
>72/3 Rod, NØRC -- Fort Collins, CO  
>  
>  
>

-----  
Date: Sat, 18 Dec 1999 12:16:16 -0800  
From: "Bob Tellefsen" <n6wg@earthlink.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [58356] Re: Counterpoise question  
Message-ID: <01bf4994\$bd139d70\$20d7fc9e@ham.earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Goran

If you use only a few radial wires per band, they should be of a heavier size. The more wires you use, the thinner they can be, as the current is divided among them.

73, Bob N6WG

-----

Date: Sat, 18 Dec 1999 12:19:32 -0800 (PST)  
From: Monte Stark <ku7y@dri.edu>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [58357] 2000 ARRL Leather Bound Radio Amateurs Handbook  
Message-ID: <Pine.GSO.4.10.9912181157090.24537-100000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Been in bed with the flu and pneumonia since right after the 10m contest! What a way to spend the last few hours of a cw test!

Sometime around Tuesday or Wenesday my new handbook came. Last night I was able to stay up long enough to open it up and take a peek.

WOW!!!

I sat there going from shivering to sweating and just couldn't close the book!

The quality is better than I expected. The pages seem very white but not with that glossy shine. The print seems to stand up just waiting to be read.

And to top it off, the content is SUPER! New chapters that cover most of the math you will ever need. Now I can get rid of all those old text books! Moving into the RV means not taking many books. This has solved one problem for me already!

I saw many names from this list as writers. Can't remember them all, but did see Zack, Ed, Chuck and etc.

I don't have the price handy but I'm sure it's around \$30. If you have been thinking about getting a new handbook, this would be a great one to get.

If you don't have one, get one now! It's the cheapest price you will ever pay for this much information!

And if you can't afford to buy a new edition, don't feel bad. Just look for a used one at a swap meet. There is nothing wrong with the older versions. (I spent most of my life not being able to aford to buy a new handbook).

But if you can think about buying \$100 kits and etc, you should have a good handbook!



And don't forget that the other book you should always have handy is Paul Harden's Data Book.

Then there is the new QRP column by Rich in QST! Wow!

Dogone ARRL, they keep making harder and harder to stay very mad at them!

But I still disagree with where they continue to go with the licensing issue! And that's been going on for many years!

cul,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....  
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

-----

Date: Sat, 18 Dec 1999 12:23:57 -0800  
From: "Bob Tellefsen" <n6wg@earthlink.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [58358] Re: new commer  
Message-ID: <01bf4995\$cfd068c0\$20d7fc9e@ham.earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello Gordon

Welcome aboard QRP-L.

This is THE premier QRP-oriented reflector. I hope you will find something of interest to you here. Just about anything pertaining to QRP comes up, and sometimes stuff that is off-topic but still interesting to someone.

One of our participants publishes a monthly note here with info on upcoming contests that have a QRP section or category.

This is a great place for questions of a technical or semi-technical nature, or even just, I'd like to know . . .

If you see a question that you think you might be able to answer, please do

so. You can either reply to the asker directly or via a post to the group. Likewise, feel free to post your own questions. This is a great group, with tons of experience in many different areas.

73 and again, Welcome Aboard.  
Bob N6WG

-----  
Date: Sat, 18 Dec 1999 15:49:42 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: jamesd1@flash.net  
Cc: qrp-l@lehigh.edu  
Subject: [58359] Re: Receivers: More on Active Filters  
Message-ID: <199912182030.PAA18669@wolf.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

> 2. If possible, it is best to have selectivity inside the AGC loop. This  
> prevents the AGC from reducing the gain on strong off frequency signals.

I discovered this can be a problem, when using audio derived AGC and using an audio filter before the AGC detection. See, the filter introduces a time delay. This results in an initial "pop" as the AGC is slow to respond to the initial signal and can also lead to overshoot in the AGC. Very annoying on fast CW signals.

Therefore, you get a much better sounding AGC if the detector is before any audio filters. If the receiver relies on audio filtering for most or all of its selectivity, then strong adjacent signals will produce AGC pumping. All in all, I'd rather have the occasional AGC pumping than the constant popping.

Another reason to have AGC before the audio filter is to ensure the filter doesn't saturate or otherwise distort. This can be very important when using SCAF's. (which BTW, have a significant propagation delay) When building a DC receiver, it's best to have the volume control before the audio filters, not after. This ensures the filters don't go into saturation and produce clipping with strong signals.

Of course, the best solution is to have a decent xtal filter before the IF amp to start with. Now, the only reason to have audio filtering is to reduce the audio BW, helping to reduce high frequency hiss.

72,  
Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Sat, 18 Dec 1999 15:49:41 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: tscott@eni.net  
Cc: qrp-l@lehigh.edu  
Subject: [58360] Re: Mast extension above a tree-top ? ? ?  
Message-ID: <199912182030.PAA18677@wolf.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

> feet from the top, and then sliding a 20' aluminum mast up from there. With  
> some sort of fixture to tie it to the tree. If you imagine nesting the mast

The main problem with this idea is that the tree continues to grow. If you strap the mast to the tree, it will strangle the tree at that point and possibly kill the top part of the tree. If you bolt the mast to the tree, it will grow out around the mast. If the mast runs up against the side of the tree for any distance, the upper part might actually bend as the tree grows against it.

Trail signs that are nailed to the side of a tree leave an inch or two of space between the sign and tree, allowing room for the tree to grow. Every couple of years, the sign has to be pulled out again to make more room.

Similar problems with screwing in an eye bolt. The tree will grow out and eventually cover over the end of the bolt. If you use an eye bolt, use a long one, so the end can be far enough from the tree to allow for years of growth. As I mentioned a few days ago, I use a rope over a limb with the pulley on the end. The rope is secured near the bottom of the tree, so it can easily come down.

72,  
Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Sat, 18 Dec 1999 16:05:53 -0500  
From: hamjoel@juno.com  
To: qrp-l@lehigh.edu  
Subject: [58361] Which is Best???  
Message-ID: <19991218.160555.-200771.1.hamjoel@juno.com>

MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Hi Y'all again

I have a question for the group... can anyone tell me which rig outperforms the other. the rigs in question are the icom 735 and the 706mk2....

I've owned a 735 before however have no experience with the 706mk2.... any information would be appreciated... also could one of the K2 owners compare the K2 against these rigs for me?

Joel KE1LA  
In Maine

-----  
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-----  
Date: Sat, 18 Dec 1999 16:56:21 -5  
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>  
To: qrp-1@Lehigh.EDU  
Subject: [58362] Re: 160m QRP DXCC  
Message-ID: <199912182156.QAA05373@sparticus.bright.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

> Perhaps Bill Kelsey ought to take up the challenge with his  
> 160 antenna -- he's got a great one as he reported in his DX contest  
> post a while back. So, Bill -- how's DX with your antenna and  
> 5 watts? You're the one to ask.

It would be tough - esp at this point in the sunspot cycle! I need to get the loop up higher. It is at 120' at the peak right now, and I have had the pulley moved to 160', so I can go to 160' at the peak. I also need to get the beverages back up. Hearing is always the biggest problem on 160!

My gut feel is that DXCC would be tough. The first 50 - 75 countries would not be too bad (for 160!) but then things would get tough! If I can get on the 160 test in January I'll let you know how it goes...

73 - Bill - N8ET  
Kanga US  
kanga@mail.bright.net  
<http://www.bright.net/~kanga/>  
419-423-4604

-----  
Date: Sat, 18 Dec 1999 14:17:20 -0800  
From: "Bob Tellefsen" <n6wg@earthlink.net>  
To: "QRP-L List" <qrp-l@Lehigh.EDU>  
Subject: [58363] R/S 22-504 power supply  
Message-ID: <01bf49a5\$a701ae80\$63d7fc9e@ham.earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Now that the K2 can run up to 15w output, it puts more load on the power supply.

As it stands, the R/S 22-504 3 amp supply is regulated at 13.8v. The internal pot will run it up to 14.04v (at least in my unit), and down to 12.04v.

To get a bit more voltage to allow the K2 to run up to its full power, I placed a 1000 ohm resistor in parallel with R7 (a 270 ohm resistor) on the regulator board. It is easy to solder it in place on the underside of the board, as there is plenty of clearance between the board and the housing.

After this mod, I get the following results with 15w out of the K2.

P/S unloaded  
14.55v max (read with DMM)  
13.0v min

K2 into dummy load  
13.4v @ 3.28A (read on K2 V and A display)

K2 into ant  
13.28v @ 3.36A (read on K2 V and A display)

A very easy mod, and worth doing. I just wish the voltage held up a bit better, but it may be due to internal power supply transformer resistance.

73, Bob N6WG

-----  
Date: Sat, 18 Dec 1999 17:30:54 -0500  
From: osier <osier@northnet.org>  
To: qrp-1@lehigh.edu  
Subject: [58364] Happy...Happy ...Happy !!!!  
Message-ID: <385C0B1E.4A140420@northnet.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello All !!!

Worked 5T5U this morning for my 200 th country !!!!!  
Did the first 191 with a Uniden 2510 last cycle ...20 watts.  
worked the last 9 with 2 watts from a Ten Tec Argo 509 !!!  
Been a Tech-plus since 1989 .

Doing my DXCC all over QRP now .....123 worked QRP, 86 confirmed ...

LOVE 10 METERS !!!!!

72s

George , N2JNZ / QRP

-----  
Date: Sat, 18 Dec 1999 14:48:12 PST  
From: "Alan Fryer" <n3bj@hotmail.com>  
To: qrp-1@lehigh.edu  
Subject: [58365] N3BJ/m 10M semi-beacon  
Message-ID: <19991218224812.74303.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Y'all

I'll be mobile tomorrow, Sunday, en route from Roanoke, VA to Erie, PA  
running 5 watts on top the Toyota. Leaving about 6:00 Eastern and arriving  
about 2:00. I'll be concentrating on 28.060 at the top of the hour and  
listening around the band the rest of the time.

Returning Tuesday, same times. Give a listen, if you can.

Happy Holidays !

Alan, N3BJ  
Bent Mountain, VA

-----  
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-----  
Date: Sat, 18 Dec 1999 16:07:55 -0700  
From: "James R. Duffey" <jamesd1@flash.net>  
To: Steven Weber <kd1jv@moose.ncia.net>  
Cc: qrp-l@lehigh.edu  
Subject: [58366] Re: Receivers: More on Active Filters  
Message-ID: <199912182307.RAA24929@chupacabras.flash.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

Steve - Your points are well taken.

Audio AGC can be difficult to implement and poor audio AGC can result in thump. However some designers have made acceptable audio agc by judicious choice of AGC theresholds gain as well as attack and decay rates.

Audio AGC has also been implemented in a second control loop (in addition to IF derived AGC) which, if properly designed, can result in AGC action without thumps.

There are poorly designed IF derived AGC systems which thump. My old FT101E with 600 Hz CW filter is a prime example of this. To make it worse there is no way to turn off the AGC.

Actually I prefer to listen to CW without AGC. - Dr. Megacycle KK6MC/5

30 Casa Loma Road  
Cedar Crest, NM 87008

-----  
>From: "Steven Weber" <kd1jv@moose.ncia.net>  
>To: jamesd1@flash.net  
>Cc: qrp-l@lehigh.edu  
>Subject: Re: Receivers: More on Active Filters  
>Date: Sat, Dec 18, 1999, 08:49 AM  
>

>> 2. If possible, it is best to have selectivity inside the AGC loop. This  
>> prevents the AGC from reducing the gain on strong off frequency signals.  
>

>I discovered this can be a problem, when using audio derivied AGC and  
>using an audio filter before the AGC detection. See, the filter  
>interduces a time delay. This results in an inital "pop" as the AGC  
>is slow to respond to the intial signal and can also lead to  
>overshoot in the AGC. Very annoying on fast CW signals.

>

>Therefore, you get a much better sounding AGC if the detector is  
>before any audio filters. If the receiver relies on audio filtering  
>for most or all of it's selectivity, than strong adjacent signals  
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>AGC pumping than the consitant popping.

>

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>filter doesn't saturate or otherwise distort. This can be very  
>important when using SCAF's. (which BTW, have a significant  
>propagation delay) When building a DC receiver, it's best to have the  
>volume control before the audio filters, not after. This ensures the  
>filters don't go into saturation and produce clipping with strong  
>signals.

>

>Of course, the best solution is to have a decent xtal filter before  
>the IF amp to start with. Now, the only reason to have audio  
>filtering is to reduce the audio BW, helping to reduce high frequency  
>hiss.

>

>72,

>Steve, KD1JV in the white Mountains of New Hampshire

>"melt solder"

>

-----

Date: Sat, 18 Dec 1999 23:55:56 -0500

From: patrick m kvitkauskas <pmk@juno.com>

To: qrp-l@lehigh.EDU

Subject: [58367] Things that make you go hummm(%#&^%

Message-ID: <19991218.235558.10046.0.pmk@juno.com>

I have been trying to ID a bunch of stuff in the shack and ran across  
these diodes  
that have me stumped. The first # looks like a inverted 2. Here is what  
it looks like.

S9

5598

T

I scraped off the paint. It looks to be a germanium but the whisker is



BIG (flat)  
compared to a 1N34

Any takers on IDing this one (Ed) ???

72 de Patrick KD4OBQ

AR  
send replies to  
pmk@juno.com for faster service (checked twice daily)  
pmk@bellsouth.net to send pictures  
<http://www.qsl.net/kd4obq/> QRP site  
<http://homestead.juno.com/pmk/FILES/INDEX.HTM> R/C soaring site

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End of QRP-L Digest 1673

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